

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated below and is addressed to "Commissioner for Patents, Washington, DC 20231."

Atty Dkt No. 8350-0001  
PATENT

"Express Mail" Mailing Label No.: EL910311245US

Date of Deposit: January 17, 2002

Sam Pen

Printed Name of Person Mailing Paper or Fee

[Signature]  
Signature of Person Mailing Paper or Fee



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

John W. SHELL

Serial No.: Unassigned

Group Art Unit: Unassigned

Filing Date: Concurrently herewith

Examiner: Unassigned

Title: METHOD FOR IDENTIFYING COMPOUNDS TO TREAT MEDICAL  
PATHOLOGIES ASSOCIATED WITH MOLECULAR CRYSTALLIZATION

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, DC 20231

Sir:

This is an Information Disclosure Statement submitted for the Examiner's consideration. Applicant respectfully requests that the Examiner review and make of record the references identified below.

PTO-1449 forms listing the references accompany this paper. Applicants would appreciate the Examiner's initialing and returning the forms to indicate that the references have been reviewed and made of record. The references are as follows:

U.S. PATENT DOCUMENTS		
Patent No.	Issue Date	Patentee
5,643,782	7/1/97	Andley et al.
6,268,158	7/31/01	Pantoliano et al.

OTHER DOCUMENTS	
Addadi et al. (2001), "On How Proteins Interact with Crystals and Their Effect on Crystal Formation," <i>Zeitschrift für Kardiologie</i> 90(3):92-98.	
Berger et al. (2000), "Differences Between Cystic Fibrosis Transmembrane Conductance Regulator and HisP in the Interaction with the Adenine Ring of ATP," <i>The Journal of Biological Chemistry</i> 275(38):29407-29412.	
Carver (1999), "Probing the Structure and Interactions of Crystallin Proteins by NMR Spectroscopy," <i>Progress in Retinal and Eye Research</i> 18(4):431-462.	
Come et al. (1993), "A Kinetic Model for Amyloid Formation in the Prion Diseases: Importance of Seeding," <i>Proc. Natl. Acad. Sci. USA</i> 90:5959-5963.	

OTHER DOCUMENTS	
Dowling (2000), "Review: Pathogenesis of Gallstones," <i>Aliment Pharmacol. Ther.</i> <u>14</u> (Suppl. 2):39-47.	
Durbin et al. (1996), "Protein Crystallization," <i>Annu. Rev. Phys. Chem.</i> <u>47</u> :171-204.	
Francis et al. (1999), "Lens Biology – Development and Human Cataractogenesis," <i>Trends in Genetics</i> <u>15</u> (5):191-196.	
Graw (1997), "The Crystallins: Genes, Proteins and Diseases," <i>Biol. Chem.</i> <u>378</u> :1331-1348.	
Han et al. (1995), "The Core Alzheimer's Peptide NAC Forms Amyloid Fibrils which Seed and Are Seeded by -amyloid: Is NAC a Common Trigger or Target in Neurodegenerative Disease?," <i>Chemistry &amp; Biology</i> <u>2</u> :163-169.	
Hertzberg et al. (2000), "High-Throughput Screening: New Technology for the 21 <sup>st</sup> Century," <i>Current Opinion in Chemical Biology</i> <u>4</u> :445-451.	
Lieske et al. (1994), "Renal Epithelial Cells Rapidly Bind and Internalize Calcium Oxalate Monohydrate Crystals," <i>Proc. Natl. Acad. Sci. USA</i> <u>91</u> :6987-6991.	
Marangella et al. (2000), "Renal Stones: From Metabolic to Physicochemical Abnormalities. How Useful are Inhibitors?," <i>Journal of Nephrology</i> <u>13</u> (Suppl. 3):S51-S60.	
McPherson et al. (2001), "Atomic Force Microscopy Applications in Macromolecular Crystallography," <i>Acta Crystallographica</i> <u>D57</u> :1053-1060.	
Olsen et al. (2000), "High-Throughput Screening of Enzyme Libraries," <i>Current Opinion in Biotechnology</i> <u>11</u> :331-337.	
Peng et al. (2000), "Quantification of Cholesteryl Esters in Human and Rabbit Atherosclerotic Plaques by Magic-Angle Spinning <sup>13</sup> C-NMR," <i>Arterioscler. Thromb. Vasc. Biol.</i> , pp. 2682-2688.	
Piatigorsky (2000), "Review: A Case for Corneal Crystallins," <i>Journal of Ocular Pharmacology and Therapeutics</i> <u>16</u> (2):173-180.	
Reginato et al. (1989), "Calcium Oxalate and Other Crystals Associated with Kidney Diseases and Arthritis," <i>Seminars in Arthritis and Rheumatism</i> <u>18</u> (3):198-224.	
Sampaleanu et al. (1999), "Domain Exchange Experiments in Duck Delta-Crystallins: Functional and Evolutionary Implications," <i>Protein Science</i> <u>8</u> :529-537.	
Serpell et al. (2000), "Molecular Structure of a Fibrillar Alzheimer's A $\beta$ Fragment," <i>Biochemistry</i> <u>39</u> (43):13269-13275.	
Slingsby et al. (1993), "Structure of the Crystallins," <i>Eye</i> <u>13</u> :395-402.	
Stevens (2000), "High-Throughput Protein Crystallization," <i>Current Opinion in Structural Biology</i> <u>10</u> :558-563.	
Zoul et al. (2001), "All or None Fibrillogenesis of a Prion Peptide," <i>Eur. J. Biochem.</i> <u>268</u> (18):4885-4891.	

This Information Disclosure Statement is not intended as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any of the above references constitutes prior art to the present application within the meaning of 35 USC § 102.

As this Information Disclosure Statement is being filed concurrently with the application,  
no fee is required.

Respectfully submitted,

1/17/02  
Date

By: *Dianne E. Reed*  
Dianne E. Reed  
Registration No. 31,292

REED & ASSOCIATES  
800 Menlo Avenue, Suite 210  
Menlo Park, California 94025  
(605) 330-0900 Telephone  
(650) 330-0980 Facsimile

SUBSTITUTE FORM PTO-1449  
(MODIFIED)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.:  
8350-0001SERIAL NO.:  
Unassigned**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT:  
John W. SHELLFILING DATE:  
Concurrently herewithGROUP:  
Unassigned**U.S. PATENT DOCUMENTS**

EXAMINER INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,643,782	7/1/97	Andley et al.			
	AB	6,268,158	7/31/01	Pantoliano et al.			

**OTHER DOCUMENTS — NONPATENT LITERATURE DOCUMENTS**

EXAMINER INITIALS	CITE NO.	INCLUDE NAME OF AUTHOR, TITLE OF ARTICLE (IF APPROPRIATE), TITLE OF PUBLICATION, DATE, PAGE(S), VOLUME-ISSUE NUMBER(S), PUBLISHER, AND PLACE OF PUBLICATION
	AC	Addadi et al. (2001), "On How Proteins Interact with Crystals and Their Effect on Crystal Formation," <i>Zeitschrift für Kardiologie</i> 90(3):92-98.
	AD	Berger et al. (2000), "Differences Between Cystic Fibrosis Transmembrane Conductance Regulator and HisP in the Interaction with the Adenine Ring of ATP," <i>The Journal of Biological Chemistry</i> 275(38):29407-29412.
	AE	Carver (1999), "Probing the Structure and Interactions of Crystallin Proteins by NMR Spectroscopy," <i>Progress in Retinal and Eye Research</i> 18(4):431-462.
	AF	Come et al. (1993), "A Kinetic Model for Amyloid Formation in the Prion Diseases: Importance of Seeding," <i>Proc. Natl. Acad. Sci. USA</i> 90:5959-5963.
	AG	Dowling (2000), "Review: Pathogenesis of Gallstones," <i>Aliment Pharmacol. Ther.</i> 14(Suppl. 2):39-47.
	AH	Durbin et al. (1996), "Protein Crystallization," <i>Annu. Rev. Phys. Chem.</i> 47:171-204.
	AI	Francis et al. (1999), "Lens Biology – Development and Human Cataractogenesis," <i>Trends in Genetics</i> 15(5):191-196.
	AJ	Graw (1997), "The Crystallins: Genes, Proteins and Diseases," <i>Biol. Chem.</i> 378:1331-1348.
	AK	Han et al. (1995), "The Core Alzheimer's Peptide NAC Forms Amyloid Fibrils which Seed and Are Seeded by -amyloid: Is NAC a Common Trigger or Target in Neurodegenerative Disease?," <i>Chemistry &amp; Biology</i> 2:163-169.
	AL	Hertzberg et al. (2000), "High-Throughput Screening: New Technology for the 21 <sup>st</sup> Century," <i>Current Opinion in Chemical Biology</i> 4:445-451.
	AM	Lieske et al. (1994), "Renal Epithelial Cells Rapidly Bind and Internalize Calcium Oxalate Monohydrate Crystals," <i>Proc. Natl. Acad. Sci. USA</i> 91:6987-6991.
	AN	Marangella et al. (2000), "Renal Stones: From Metabolic to Physicochemical Abnormalities. How Useful are Inhibitors?," <i>Journal of Nephrology</i> 13(Suppl. 3):S51-S60.
	AO	McPherson et al. (2001), "Atomic Force Microscopy Applications in Macromolecular Crystallography," <i>Acta Crystallographica D</i> 57:1053-1060.
	AP	Olsen et al. (2000), "High-Throughput Screening of Enzyme Libraries," <i>Current Opinion in Biotechnology</i> 11:331-337.
	AQ	Peng et al. (2000), "Quantification of Cholesteryl Esters in Human and Rabbit Atherosclerotic Plaques by Magic-Angle Spinning <sup>13</sup> C-NMR," <i>Arterioscler. Thromb. Vasc. Biol.</i> , pp. 2682-2688.
	AR	Piatigorsky (2000), "Review: A Case for Corneal Crystallins," <i>Journal of Ocular Pharmacology and Therapeutics</i> 16(2):173-180.
	AS	Reginato et al. (1989), "Calcium Oxalate and Other Crystals Associated with Kidney Diseases and Arthritis," <i>Seminars in Arthritis and Rheumatism</i> 18(3):198-224.
	AT	Sampaleanu et al. (1999), "Domain Exchange Experiments in Duck Delta-Crystallins: Functional and Evolutionary Implications," <i>Protein Science</i> 8:529-537.
	AU	Serpell et al. (2000), "Molecular Structure of a Fibrillar Alzheimer's A $\beta$ Fragment," <i>Biochemistry</i> 39(43):13269-13275.

EXAMINER SIGNATURE:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449  
(MODIFIED)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.:  
8350-0001SERIAL NO.:  
Unassigned**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT:  
John W. SHELLFILING DATE:  
Concurrently herewithGROUP:  
Unassigned**U.S. PATENT DOCUMENTS**

EXAMINER INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AV	Slingsby et al. (1993), "Structure of the Crystallins," <i>Eye</i> <u>13</u> :395-402.					
	AW	Stevens (2000), "High-Throughput Protein Crystallization," <i>Current Opinion in Structural Biology</i> <u>10</u> :558-563.					
	AX	Zoul et al. (2001), "All or None Fibrillogenesis of a Prion Peptide," <i>Eur. J. Biochem.</i> <u>268</u> (18):4885-4891.					

EXAMINER SIGNATURE:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.